CLAIMS:

- 1. Electronic circuit for determining a ratio of a first frequency of a first signal and a second frequency of a second signal, the electronic circuit comprising: a first counter and a second counter; a sampling means for sampling first intermediate count values of the first counter when the second counter reaches preset second intermediate count values such that the first counter is sampled under the control of the second counter; wherein the first and second intermediate count values form a plurality of pairs of intermediate count values of the first and second counters; wherein, during the sampling of the first intermediate count values, the first and second counters continue counting; and a calculation unit for determining the ratio of the first and second frequencies on the basis of the plurality of pairs of intermediate count values.
- 2. The electronic circuit of claim 1, wherein more than two pairs of intermediate count values are used by the calculation unit for determining the ratio of the first and second frequencies.
- The electronic circuit of claim 2, wherein the first counter is triggered by one of a rising edge and a falling edge of the first signal; wherein the second counter is triggered by one of a rising edge and a falling edge of the second signal;
 wherein a clock signal of the second counter is one of the first and second signals;
 wherein the second intermediate count values of the second counter at which the first counter is sampled are preset in a register.
- 4. The electronic circuit according to claim 2, further comprising: a
 memory; wherein the memory comprises a first and a second storage; wherein the
 first storage is for storing the first intermediate count values of the first counter such
 that a sequence of first intermediate count values of the first counter is provided and the
 second storage is for storing the second intermediate count values of the second counter

such that a sequence of second intermediate count values of the second counter is provided.

- 5. The electronic circuit according to claim 1, wherein the calculation unit is implemented by a processor; wherein the plurality of pairs of intermediate count values are stored in a working memory of the processor; and wherein the working memory is accessed for one of reading and writing of the plurality of pairs of intermediate count values by interrupt routines.
- 10 6. The electronic circuit of claim 1, wherein the calculation unit determines a variation of the frequency ratio over the time.
- 7. Method of determining a ratio of a first frequency of a first signal and a second frequency of a second signal, the method comprising the steps of: sampling first intermediate count values of a first counter when a second counter reaches preset second intermediate count values such that the first counter is sampled under the control of the second counter; wherein the first and second intermediate count values form a plurality of pairs of intermediate count values of the first and second counters; wherein, during the sampling of the first intermediate count values, the first and second counters continue counting; and determining the ratio of the first and second frequencies on the basis of the plurality of pairs of intermediate count values.
 - 8. The method of claim 7, wherein more than two pairs of intermediate count values are used for determining the ratio of the first and second frequencies.

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9. Computer program product comprising computer program code means, wherein the computer program code means causes a processor to perform the following operation when the computer program code means is executed on the processor:

- sampling first intermediate count values of a first counter when a second counter reaches preset second intermediate count values such that the first counter is sampled under the control of the second counter; - wherein the first and second intermediate count values form a plurality of pairs of intermediate count values of the first and second counters; - wherein, during the sampling of the first intermediate count values,

the first and second counters continue counting; and - determining the ratio of the first and second frequencies on the basis of the plurality of pairs of intermediate count values.

5 10. The computer program product of claim 9, - wherein more than two pairs of intermediate count values are used for determining the ratio of the first and second frequencies.